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input power measured at that loading condition. Efficiency shall be calculated at each Loading Condition (1, 2, 3, and 4, in Table 1) and be recorded separately.

(F) Power consumption calculation. Power consumption of the unit under test at Loading Conditions 1, 2, 3, and 4 is the difference between the active output power at that Loading Condition and the active AC input power at that Loading Condition. The power consumption of Loading Condition 5 (noload) is equal to the AC active input power at that Loading Condition.

(ii) Off Mode Measurement—If the multiple-voltage external power supply unit under test incorporates any on-off switches, the unit under test shall be placed in off mode and its power consumption in off mode measured and recorded. The measurement of the off mode energy consumption shall conform to the requirements specified in paragraph (4)(b)(i) of this appendix. Note that the only loading condition that will be measured for off mode is "Loading Condition 5" in paragraph (A), "Loading conditions and testing sequence", except that all manual on-off switches shall be placed in the off position for the measurement.

[71 FR 71366, Dec. 8, 2006, as amended at 74 FR 12066, Mar. 23, 2009; 74 FR 13334, Mar. 27, 2009; 76 FR 31782, June 1, 2011]

Subpart C—Energy and Water Conservation Standards

§430.31 Purpose and scope.

This subpart contains energy conservation standards and water conservation standards (in the case of faucets, showerheads, water closets, and urinals) for classes of covered products that are required to be administered by the Department of Energy pursuant to the Energy Conservation Program for Consumer Products Other Than Automobiles under the Energy Policy and Conservation Act, as amended (42 U.S.C. 6291 et seq.). Basic models of covered products manufactured before the date on which an amended energy conservation standard or water conservation standard (in the case of faucets, showerheads, water closets, and urinals) becomes effective (or revisions of such models that are manufactured after such date and have the same energy efficiency, energy use characteristics, or water use characteristics (in the case of faucets, showerheads, water closets, and urinals), that comply with the energy conservation standard or water conservation standard (in the

case of faucets, showerheads, water closets, and urinals) applicable to such covered products on the day before such date shall be deemed to comply with the amended energy conservation standard or water conservation standard (in the case of faucets, showerheads, water closets, and urinals).

[63 FR 13317, Mar. 18, 1998]

§ 430.32 Energy and water conservation standards and their effective dates.

The energy and water (in the case of faucets, showerheads, water closets, and urinals) conservation standards for the covered product classes are:

(a) Refrigerators/refrigerator-freezers/freezers. These standards do not apply to refrigerators and refrigerator-freezers with total refrigerated volume exceeding 39 cubic feet (1104 liters) or freezers with total refrigerated volume exceeding 30 cubic feet (850 liters). The energy standards as determined by the equations of the following table(s) shall be rounded off to the nearest kWh per year. If the equation calculation is halfway between the nearest two kWh per year values, the standard shall be rounded up to the higher of these values

The following standards remain in effect from July 1, 2001 until September 14, 2014:

Product class	Energy standard equations for max imum energy use (kWh/yr)
1. Refrigerators and refrigerator-freezers	8.82AV + 248.4
with manual defrost.	0.31av + 248.4
2. Refrigerator-freezers-partial auto-	8.82AV + 248.4
matic defrost.	0.31av + 248.4
3. Refrigerator-freezers-automatic de-	9.80AV + 276.0
frost with top-mounted freezer without	0.35av + 276.0
through-the-door ice service and all-re-	
frigerator—automatic defrost.	
4. Refrigerator-freezers—automatic de-	4.91AV + 507.5
frost with side-mounted freezer without	0.17av + 507.5
through-the-door ice service.	
5. Refrigerator-freezers—automatic de-	4.60AV + 459.0
frost with bottom-mounted freezer	0.16av + 459.0
without through-the-door ice service.	40.00414 050.0
6. Refrigerator-freezers—automatic de-	10.20AV + 356.0
frost with top-mounted freezer with	0.36av + 356.0
through-the-door ice service. 7. Refrigerator-freezers—automatic de-	10.10AV + 406.0
frost with side-mounted freezer with	0.36av + 406.0
through-the-door ice service.	0.30av + 400.0
8. Upright freezers with manual defrost	7.55AV + 258.3
o. Oprigit ireezers with manual demost	0.27av + 258.3
9. Upright freezers with automatic de-	12.43AV + 326.1
frost.	0.44av + 326.1